AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-3. (Canceled)

4. (Currently Amended) A driving method of a PDP, comprising:

detecting false contour generation regions from each of first video data for a previous frame period and second video data for a current frame period, each false contour generation region including a pixel corresponding to a gray scale generating a false contour and pixels corresponding to adjacent gray scales;

extracting a motion information from the detected false contour generation regions of the first video data and the second video data;

compensating a false contour by using the extracted motion information; and

displaying transformed video data based on the compensated false contour, wherein the compensating comprises:

setting a compensation value ~~based on~~ in proportion to a velocity value and a size of the gray scale from the motion information, and

adding or subtracting the compensation value to or from any of pixels whose gray scale has generated the false contour depending on a direction from the motion information.

5. (Previously Presented) The method according to claim 4, wherein the first video data of the previous frame period is stored such that the first video data is delayed during one frame period by a frame memory.

6-8. (Canceled)

9. (Previously Presented) The method according to claim 4, wherein the false contour is generated when a gray scale having a combination of a plurality of sub-fields is any one of 16, 32, 64 and 128.

10. (Previously Presented) The method according to claim 4, wherein the extracting comprises:

matching the first video data of the previous frame period with the second video data of the current frame period; and

extracting the motion information from a change of movement between a first false contour generation region of the first video data and a second false contour generation region of the second video data.

11. (Previously Presented) The method according to claim 4, wherein the motion information comprises size, direction and velocity value of a gray scale.

12-27. (Canceled)

28. (Currently Amended) A plasma display driving method, comprising:

determining false contour generation regions from each of first video data for a previous frame period and second video data for a current frame period, each false contour generation region including a pixel corresponding to a gray scale generating a false contour and pixels corresponding to adjacent gray scales;

determining motion information from the false contour generation regions of the first video data and the second video data;

compensating a false contour by adjusting a gray scale based on the determined motion information; and

displaying video data based on the compensated false contour, wherein the compensating comprises:

setting a compensation value in proportion to a velocity value and a size of the gray scale from the determined motion information, and

adding or subtracting the compensation value to or from any of pixels whose gray scale has generated the false contour depending on a direction from the motion information.

29-30. (Canceled)

31. (Previously Presented) The method according to claim 28, wherein the first video data of the previous frame period is stored such that the first video data is delayed during one frame period by a frame memory.

32. (Previously Presented) The method according to claim 28, wherein the false contour is generated when a gray scale having a combination of a plurality of sub-fields is any one of 16, 32, 64 and 128.

33. (Previously Presented) The method according to claim 28, wherein determining the motion information includes:

matching the first video data of the previous frame period with the second video data of the current frame period; and

determining the motion information from a change of movement between a first false contour generation region of the first video data and a second false contour generation region of the second video data.

34. (Previously Presented) The method according to claim 28, wherein the motion information includes size, direction and velocity value of a gray scale.

35. (Canceled)